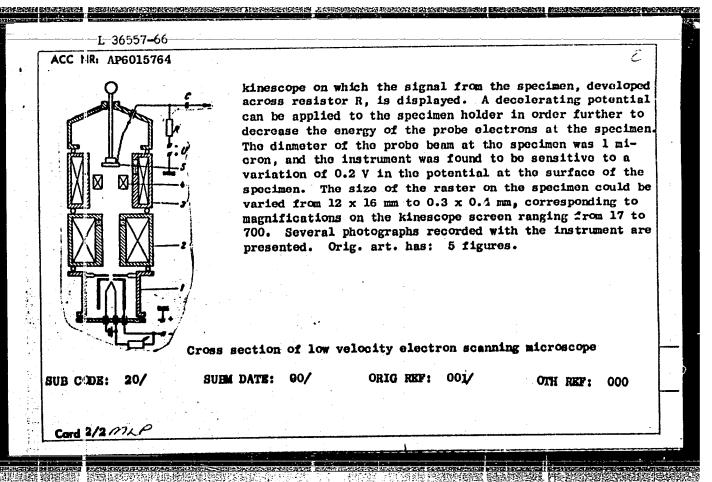
L 365 57-66 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) AT/JD ACC NR: APG015764 (A, N) SOURCE CODE: UR/0048/66/030/005/0778/0780	
ORG: none TITLE: The use of low velocity electrons in an electron scanning microscope / Report, Fifth All-Union Conference on Electron Microscopy hold in Sumy 6-8 July 1965/	
SOURCH: AN SSSR. Izvdstiya, Seriya fizicheskaya, v. 30, no. 5, 1966, 778-780 TOPIC TAGS: electron microscope, electronic scan, electron beam, electron energy ABSTRICT: An electron scanning microscope employing an accelerating potential of from 500 to 2000 V has been developed and a pilot model has been constructed. The use of 100 accelerating potential entails some deterioration of the resolving power but provides higher sensitivity to small variations of the electric and magnetic fields at the surface of the specimen. The low penetrating power of the low energy probe beam makes it possible to detect very thin films of foreign material on the surface of the specimen. Moreover, the secondary emission coefficient of some insulating materials for low energy incident electrons is close to unity, and it is accordingly possible to study such materials without first coating them with metal. A cross section of the pilot model microscope is shown in the figure. The beam from the electron gun 1 is focused by lenses 2 and 3 onto the specimen 5. The beam is deflected by the windings focused by lenses 2 and 3 onto the specimen 5. The beam is deflected by the windings	0
Card 1/2	



EWT(m)/EWP(e) L 36:137-66 SOURCE CODE: UR/0048/66/030/005/0835/0839 ACC IIRE AP6015778 AUTHOR: Zhdanov, Gl. S.; Vertsner, V. N. ORG: none TITLE. Electron microscope observation of the formation and growth of ice crystals Report, Fifth All-Union Conference on Electron Microscopy held in Sumy 6-8 July 19657 SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 5, 1966, 835-839 TOPIC TAGS: electron microscopy, crystal growth, ice, water, electric field ABSTRICT: The growth of ice crystals on cold thin carbon and quartz films was observed with an electron microscope. The ice crystals formed by condensation of residual water unpor which was present in the microscope chamber at pressures ranging from 10-5 to 10^{-3} mm lig. The accelerating potential was 80 kV, the electron beam diameter was 5-10 microns, and the current density in the Leam was 0.01 Λ/cm^2 . Under these conditions heating of the substrate by the electron beam was negligible. Hexagonal, cubic, and anorphous forms of ice were observed. The hexagonal form was stable over a wide range of temperatures; the cubic form could be obtained free from hexagonal admixture only at high vacuum and temperatures below 145° K. A sharp change in the character of the crystallization took place at 170° K; instead of the formation of large crystals, there was observed the almost simultaneous appearance of a large number of nuclei which

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	AUTHORS	: Zhdanov, G. S.; Vertsner, V. N.	
	ORG:	one A	
	TITLE:		Sales (Constitution
	1	Fizika tverdogo tela, v. 8, no. 4, 1966, 1021-1027 electron microscope, electron microscope, rags: mercury, vapor condensation, crystallization, metal film,	agent de co
	partic	le collision/Ei-mishop z one investigations of the	
	kineti metals produc	Inasmuch as most electron-microscope investigations of the sof the growth of thin films produced during evaporation of in the microscope directly display only the growth of already in the microscope directly display only the growth of already ed particles, and not the more interesting process of their occurate authors investigated in an electromicroscope the condensation the authors investigated in an electromicroscope the condensation cury on cooled carbon films. The 'El'miskop l' electron micro-	The state of the s
	of mer	with resolution 1 1.5 nm (10 15 Å) was used. The mercury	
	2 x 10	mm Hg, depending on the evacuation	The state of the s
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ACC NRI AP6	012456 led to 190 125K.	Pacause of the form	nation slow o	con-
dangation could	the observed only at	t temperatures below	r 135K. At al	LJ.
Hanid drong.	rom 190 to 125K, the The liquid mercury p	particles were not p	croduced simul	tane-
ougly but dur	ing the first few min	nutes of condensatio	on, arter which	on no
temperature, t	he rate of condensati	ion decreased. The	lifetime of t	the .
mercury atoms substrate were	on the substrate at calculated from the	results. The value	es obtained we	ere
annroximately	1.5 sec and were fow	nd to be 1×10^{-4} se	ec and 10.5 kd	J/mole.
The kirchine o	f the condensation of	f the mercury is dea	scribed arom	une i
noint of view	that the condensation	n begins with randor	n collisions b	be tween
point of view	that the condensation	n begins with randor ial mercury drops gi	n collisions of conde	ensa-
point (f view migrating atom	that the condensations, and that the init	n begins with randor ial mercury drops gr l atoms. Many of th	n collisions or row from conde ne secondary e	ensa- effects
point of view migrating atom	that the condensations, and that the init ntaining only severa ng the crystallization	n begins with randor ial mercury drops gr l atoms. Many of th	n collisions or row from conde ne secondary e	ensa- effects
point of view migrating atom tion nuclei co occurring duri has: 4 figures	that the condensations, and that the init ntaining only severa ng the crystallization	n begins with randor ial mercury drops grain atoms. Many of the on are briefly description	n collisions of comments of the condense condense condense cribed. Orig,	ensa- effects
point of view migrating atom tion nuclei co occurring duri has: 4 figures	that the condensations, and that the initantal ntaining only severa ng the crystallization.	n begins with randor ial mercury drops grain atoms. Many of the on are briefly description	n collisions of comments of the condense condense condense cribed. Orig,	ensa- effects
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point of view migrating atom tion nuclei co occurring duri has: 4 figures	that the condensations, and that the initantal ntaining only severa ng the crystallization.	n begins with randor ial mercury drops grain atoms. Many of the on are briefly description	n collisions of comments of the condense condense condense cribed. Orig,	ensa- effects
point of view migrating atom tion nuclei co occurring duri has: 4 figures	that the condensations, and that the initantal ntaining only severa ng the crystallization.	n begins with randor ial mercury drops grain atoms. Many of the on are briefly description	n collisions of comments of the condense condense condense cribed. Orig,	ensa- effects

V.RTSNER, V. N. (Phys)

W.RTSNER, V. N. (Phys) -- "Clinical Characteristics of a Mixed Infection of Scarlet Fever and Chicken Pox." Sub 22 Sep 52, Second Moscow State Medical Inst imeni I. V. Stalin. (Dissertation for the Degree of Candidate in Medical Sciences).

S): Vechernaya Moskva January-December 1952

VERTSNER, V.N.; IVAHOVSKAYA, T.Ye.

A case of fatal chicken pox in a one-year-old child. Pediatrila (MLRA 7:3) no.1:78-80 Ja-V '54.

1. Iz detskoy gorodskoy klinicheskoy bol'nitsy Ho.1 (nauchnyy rukovoditel' - deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR professor M.A.Skvortsov, glavnyy vrach Ye.V.Prokhorovich).

(Chicken pox)

VERTSHER, V.N.; NAZAROVA, E.M.

Clinical aspects of encephalitis in chicken pox. Pediatriis 39 no.4:44-49 Jl-Ag 156. (MIRA 9:12)

1. Iz 1-y Moskovskoy detskoy klinicheskoy bol'nitsy (glavnyy vrach - sasluzhennyy vrach RSFSR Ye.V.Prokhorovich, nauchnyy rukovoditel: - prof. D.S.Futer) i Gosudarstvennogo pediatricheskogo instituta RSFSR (dir. - kandidat meditsinskikh nauk V.H.Karachevtseva) (CHICKEN POX, compl.

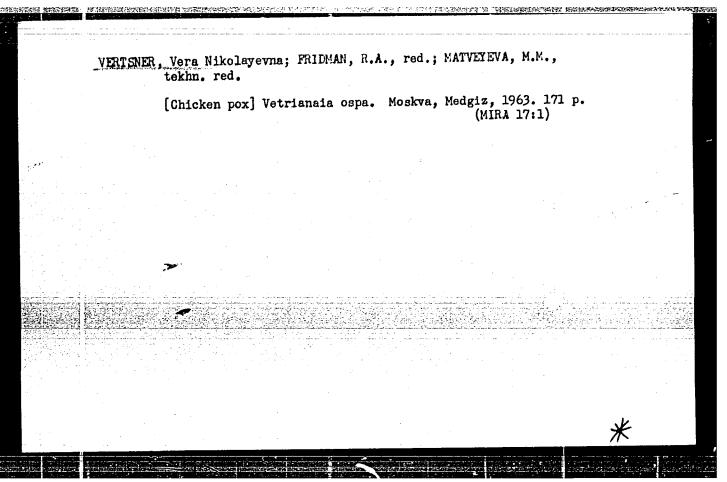
encephalitis in child., clin. aspects)
(ENCEPHALITIS, etiol. and pathogen.
chickenpox in child, clin. aspects)

VERTSNER, V.N.

Clinical characteristics of mixed infections of diphtheria and chickenpox. Pediatria 38 no.9:58-62 8 60. (MIRA 13:12)

1. Iz detskoy gorodskoy klinicheskoy bol nitsy No.1 Moskvy (glavnyy vrach - zasluzhennyy vrach RSFSR Ye.V. Prokhorovich).

(CHICKENPOX) (DIPTHERIA)



3/048/63/027/003/021/025

ITTHORS:

Il'in, M. M. Solov'yev, A. M., Vertsner, V. N., Dutov, G. G., Kolchev, B. S., and Toporkov, S. A.

PITLE:

A commercial MAP-1 (MAR-1) instrument for X-ray

microanalysis

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, PERIODICAL:

v. 27, no. 3, 1963, 420-426

This paper describes in detail a new MAP-1 (MAR-1) X-ray microanalyzer developed and tested in the Krasnogorskiy mekhanicheskiy zavod (Krasnogorsk Machine Plant). The instrument consists of the recorder. and of the microanalyzer itself, comprising the electronoptical system providing the electron probl. 2 X-ray spectrometers, a specimen chamber with an optical microscope, the electrical input girouit, and the vacuum system. The electron source is a three-electrode gun with an automatic negative shift. The optical microscopa makes it possible to observe the surface of the specimen at a magnification of 450 X, the resolution being < 1 . The non-vacuum spectrometer analyzes X-rays with a wave-Card 1/2

5/048/63/027/003/021/025 B106/B236

A commercial ..

length of up to 1.5 Å, and the vacuum spectrometer those from 1.5 to 10 Å. The spectra are analyzed using Johann's method. The Bragg angles range from 18 to 40°. The analyzer crystals are [1340] quartz crystals with a radius of curvature of 500 mm. The diameter of the X-ray source is 1-2 µ; this value depends on the diameter of the electron probe, which is \$1µ. The amperage in the focused probe, is about 10-6 A and the current stability amounts to 0.5 % per hour. The instrument makes determinations on the specimen possible in the 1-2 µ range. When the specimen is impermeable, the change in the Bragg angle of the elements from Mg to U can be determined by using both spectrometers. The distribution of the element in the specimen to be determined in the given direction can also be determined. This is done by displacing the specimen under the electron probe with an electric motor at a fixed Bragg angle corresponding to a characteristic frequency. The dispersion and sensitivity of the instrument were studied; the sensitivity in an analysis of copper via the K doublet was 10.1 %. There are 8 figures.

Cird 2/2

SOLOV'YEV, A.M.; VERTSNER, V.N.

Problems arising in designing an I-ray microanalyzer. Izv.AN SSSR.
Ser.fiz. 25 no.61691-694 Je '61. (MIRA 14:6)
(I-ray microscope)

SOLOV'YEV, A.M.; VERTSNER, V.N.; IL'IN, M.M.; TOPORKOV, S.A.; KOLCHEV, B.S.;
DÜTOV, G.G.

Industrial X-ray spectral microanalyzer MAR-1. Izv. AN SSSR.

[Industrial X-ray spectrol S '63. (MIRA 16:9)

Ser. fiz. 27 no.9:1162-1165 S '63.

(X-ray spectroscopy)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610003-8

1 2 634 66 EWT (m)/T/EWF(e)
ACC NR, AP6011224 SOURCE CODE: UR/04.13/66/000/006/0062/0062 INVENTOR: Kutateladze, K. S.; Verulashvili, R. D. OR(: none TIME: Electrical insulation glass. Class 32, No. 179884. [announced by Tbilisi_ State Scientific Research Institute of Construction Materials (Tbilisskiy Gosudarstiennyy nauchno-issledovatel'skiy institut stroitel'nykh materialov)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 62 TO IC TAGS: electrical insulation glass, dielectric glass ABSTRACT: An Author Certificate has been issued for an electrical insulation glass with good dielectric properties. The glass has the following composition: SiO2, 52-58%; A1₂O₃, 8-10%; Fe₂O₃, 1.5-2%; MnO, 5-7%; CaO, 8-10.5%; MgO, 4-6%; Na₂O, 8-13%; K₂O, 2.5-4%. In addition to these ingredients the glass contains 0.1-0.5% TiO2. SUB CODE: 11/ SUBM DATE: 06Jul64/ ATD PRESS: 4225 666.112.3 UDC: 666.117.9:537.226 Ca d 1/1

Conditions for the transmission of Toxoplasma gondii fetus. Dokl. AN SSSR 149 no.4:999-1000 Ap 163.	•	6:3)
1. Vtoroy Moskovskiy meditsinskiy institut im. N.I.F Predstavleno akademikom Ye.N.Pavlovskim. (TOXOPLASMOSIS) (FETUS—DISEASE	irogova. ES)	
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EWT(d)/EWT(m)/EWP(c)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWP(1)/EWA(h)/ETC(m)-623 14-56 SOURCE CODE: UR/0032/65/031/008/1020/1021 AP6013575 IJP(c) ACC NRI Lomberg, B. S.; Vertman, A. A.; Yakobson, A. M.; Zheladnov, V. I.; AUT OR: Polyakov, A. Yu. ORG: Institute of Metallurgy im. A. A. Baykov (Institut metallurgii) TITLE: Unit for measuring the interphase metal-slag tension at high temperatures SOURCE: Zavodskaya laboratoriya, v. 31, no. 8, 1965, 1020-1021 TOITC TAGS: furnace, slag, thermocouple, vacuum seal, x ray application, molten metal, corundum, magnesite AR TRACT: This device is a resistance furnace with a two-filament heater. A crucible is placed in the isothermal zone of the heater on a magnesite support. The melting point is measured with a platinum-platinum-rhodium thermocouple set on the bottom of the crucible. A device mounted on the too cover permits adding of slag during the experiment. Sealing of the assembly is done with vacuum seals. Viewing windows are covered with 0. .- 0.2 mm thick aluminum foil. Construction of the unit permits its operation in either a vacuum or in a neutral gas atmosphere. Experiments were conducted on corundum and magnesite crucibles, 35 mm in diameter-A substrate cut from a cylindrical crucible of smaller diameter made of the same material is placed on the bottom of the crucible. Diameter of the metal drop on this substrate is 18-20 mm. To obtain an upper edge of the 620.1.052 Card 1/2

L 23214-66 0 ACC NR: AP6013575 substrate border in the form of a true sphere, it is polished with convex and concave spheres. This provided for symmetry of the liquid metal drop. X-rays were taken with an RUP-1 x-ray device. Because of the protective shields and the intensive water cooling of the furnace housing it is possible to place the film at a minimum distance from the object. The film is placed in an aluminum cassette protected from scattering radiation by lead plates, 2 mm thick. Distance from the center of the drop to the film is 10 cm and 110 cm to the focal point of the tube. A clear image of the metal drop in the slag is obtained when the voltage on the tube is 180 kilovolts, current force-15 milliamps, and at an exposure time of 40-60 seconds. The interphase stress is calculated according to the dirensions of the drops found. The interphase tension of certain nickelbare alloys with slags was determined. The unit can be recommended for me suring the interphase tension between metals and slags of different compositions. Orig. art. has: 2 figures and 1 table. [JPRS] SUBM DATE: none / ORIG REF: 001 SUII CODE: 13 /

'ERTUN, A.

"ECH NOLOGY

PERIODICAL: BUDOWNICTWO PRZEMYSIOWE. Vol. 7, no. 9, Sept. 1958

VERTUN, A. Evaluation of the possibilities of realizing a project,

performed with the assistance of future patrons, postulated to avoid

mistakes in dwelling planning. p. 59.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 4.

April, 1959, Unclass

VERTUE, A.

The methodology of dr_n wing up projects of organizing construction work in the light of recent decisions and instructions.

p. 32 (Budownictwo Przemyslowe) Vol. 4, no. 6, June, 1955, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7. NO. 1. JAN. 1958

VET. TUN. H.

VERTUI, A.

Graphic charts for annual plans in construction.

p. 58 (Budownictwo przemyslowe) Vol. 4, No. 9, Sept. 1955, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

VIRTUN, A.

Stages in planning the organization of construction and work.

F. 31 (BUDOWNICTWO PREMYSLOWE) Poland, Vol. 6, No. 9, Sept. 1957

30: Monthly Index of East Equopean Accessions (AEEI) Vol. 6, No. 11, November 1957

VERTUM, A.

TECHNOLOGY

VERTUM, A. Evaluation of the possibilities of realizing a project, performed with the assistance of future patrons, postulated to avoid mistakes in dwelling planning. p. 59.

Vel. 7, no. 9, Sept. 1958.

Nonthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 12, Dec. 158.

GOROWSKI, Tadeusz; VERTUN-GORCWSKA, Barbara

Hyperfunctioning nodulir goiter masked by circulatory insufficiency (masked thyro-cardiac syndrome). Pol arch. med. wewnet. 34 no.8:

1073-1079 '64.

1. Z I Katedry Chorob Wewnetrznych Studii Doksztalcania Lekarzy

Akademii Medycznej w Warszawie (Kierownik: prof. dr. med. W.
Hartwig) i z Oddzialu Chorob Wewnetrznych Szpitala Czerniakowskiego
Hartwig) i z Oddzialu Chorob Wewnetrznych S. Fejgin).

KIDRYAVISEV, A.A., prof.; Kimimichay, A.V.; Vertunov, A.I.; Kumimicha, A.N.

Composition and properties of the blood and hone carrow in cattle.

Veterinaria 42 no.10:50-52 0 165. (MIRA 18:10)

1. Vaesoyuzayy institut ekeperimental'noy vaterinarii.

MIDRYAVTSEV, A.A., prof.; VERTUNOV, A.I., starshiy nauchnyy sotrudnik

Application of radioactive isotopes in stockbreeing. Zhivotnovodstvo
(MIRA 15:12)
24, no.9:71-74 S '62.

1. Vsesoyuznyy institut eksperimental'noy veterinarii.
(Vertinary physiology)
(Radioactive tracers)

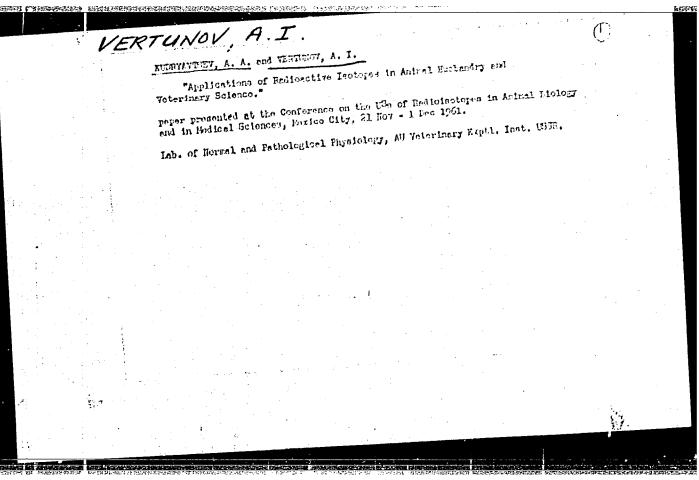
Antomicropipet. Trudy VIEV 26:188-167 1. Laboratoriya fiziologii Vsesoyuznogo instituta eksperimental'- noy veterinarii. (Pipettes)	VER TUROV	Antomicropipet.	fiziologi	I AREBOL	162. o instituta	(MIRA 1612) eksperimental:	
		noy veterinarii	•	(Pipettes)			
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WJERYAVTSEV, A.A., prof.; VERTUNOV, A.I., nauchnyy sotrudnik

Use of radioactive tracers in stock breeding and in veterinary
medicine. Veterinariia 36 no.9:11-17 S '59. (MIRA 12:12)

1. Laboratoriya fisiologii Vsesoyusnogo instituta eksperimental'noy
veterinarii (VIEV).

(Radioactive tracers) (Veterinary medicine)

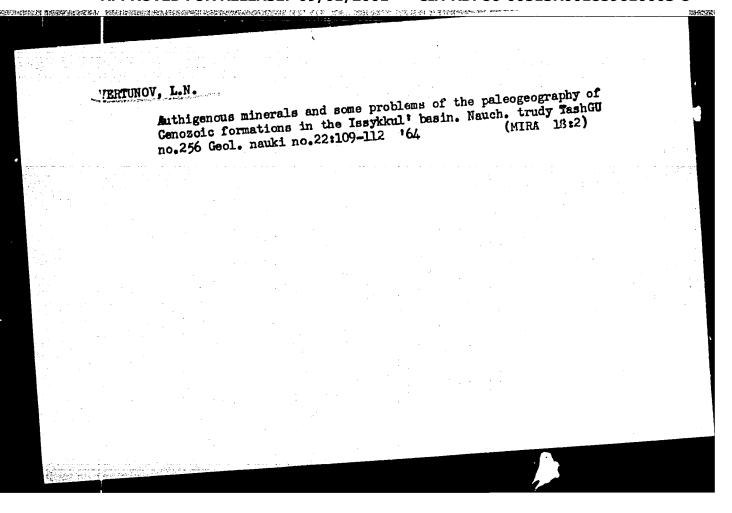


VIRTUNOV, L.N.; TSEKHMEYSTRYUK, A.K.

Possibility of using clay from the Tertiary sediments of the Malyy Orgochor anticline for making clay muds. Izv. vys. ucheb. zav.; (MIRA 16:10) neft' i gaz 4 no.3:33-36 '61.

1. Frunzenskiy politeklmicheskiy institut, Issyk-kul'skaya ekspeditsiya.

New data on the occurrence cepth of Palsozoic igneous rocks in New data on the occurrence cepth of Palsozoic igneous rocks in the Chu Valley. Izv.vys.ucheb.zav.; geol. i razv. 7 no.3:1/1 the Chu Valley. Izv.vys.ucheb.zav.; geol. i razv. 7 no.3:1/1 (MIRA 18:3) 1. Frunzenskiy politekhnicheskiy institut.



VERTUNOV, L.N.

Facies analysis of neogenic Molasse deposits of the southeastern part of the Chu Depression based on the materials of deep borings. Dokl. AN SSSR 147 no.1:174-176 (MIRA 15:11) N 162.

1. Frunzenskiy politekhnicheskiy institut. Predstavlenc akademikom D.V. Nalivkinym.

(Chu Valley-Geology stratigraphic)

Problem of oil and gas potentials of Tertiary continental molasse sediments of the southwestern Issyk-Kul' Basin (porthern Tien Sham). Izv.vys.ucheb.zav.; neft' i gaz 3 no.3:3-8 '60. (MIRA 14:10) 1. Frunzenskiy politekhnicheskiy institut. (Issyk-Kul' region--Fetroleum geology) (Issyk-Kul' region--Gas, Natural--Geology)

WERTUNOV, L.N.; GRIDNEV, N.I.

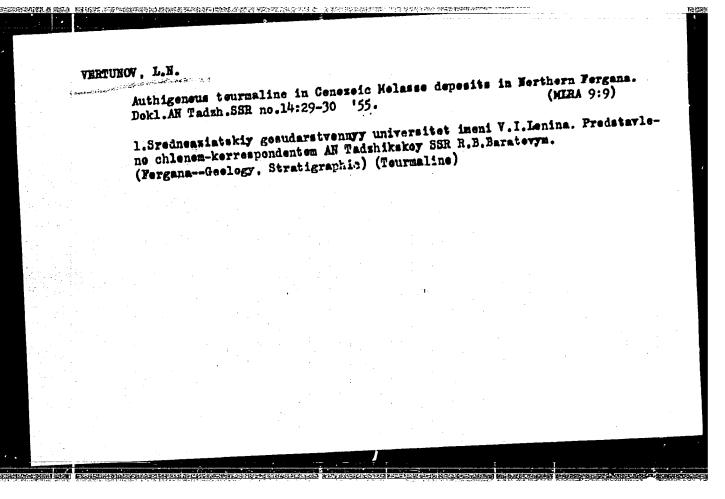
Minero-petrographic characteristics of recent alluvial-colluvial
deposits in the Issyk-Kul' Basin. Izv.AN Kir. SSR. Ser. est. 1
deposits in no.7:107-111 '62.
(MIRA 16:3)
(Issyk-Kul' region-Petrology)

VERTUNOV, L.N.; IL'YASOVA, A.S.

Mineralogical composition of the Tertiary continental sediments

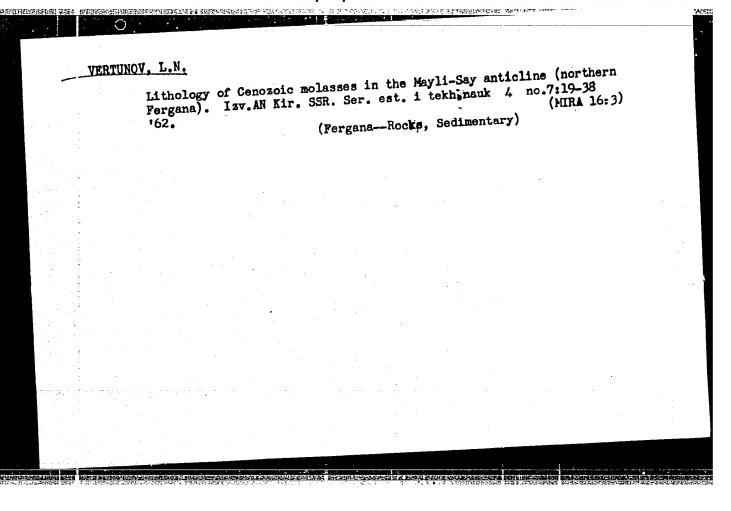
Mineralogical composition of the lake Issykkul'. Zap. Kir. otd.
in the southeastern shore of the lake Issykkul'. Zap. Kir. otd.
(MIRA 17:11)
Vses. min. ob-va no.3:81-92

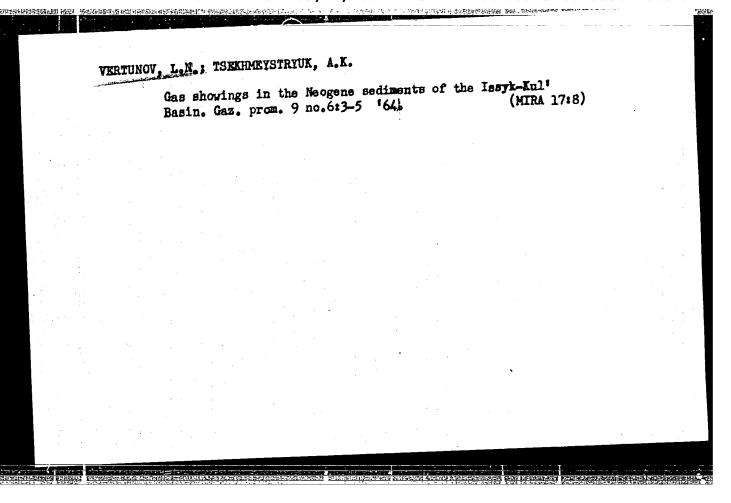
162.



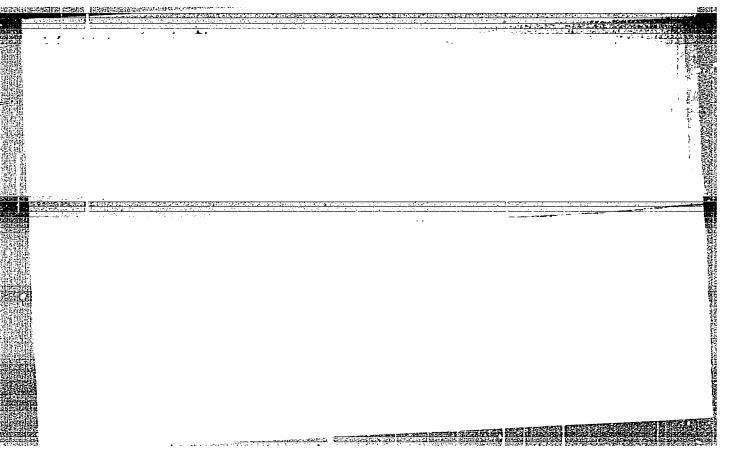
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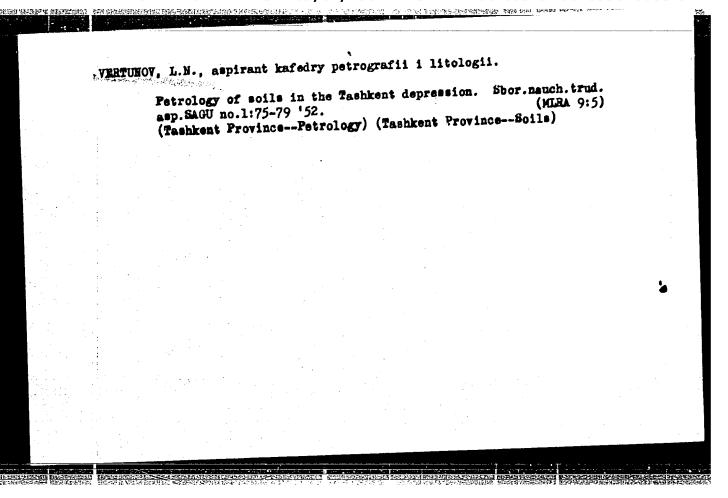




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Referativnyy zhurmal, Geologiya, 1957, Nr 10, Translation from:

pp 88-89 (USSR)

Vertunov, L. N. AUTHOR:

The Cenozoic Molasse Facies of Northern Fergana (Fatsii

kaynozoyskikh molass Severnoy Fergany) TITLE:

Tr. In-ta geol. AN KirgSSR, 1956, Mr. 8, pp 57-77 PERIODICAL:

The outline of the subdivisions of the molasse in Fergana is based on periodic alternating phases of sedi-ABSTRACT:

mentary integration and differentiation, changing from one to the other in definite sequences. The Cenozoic molasse of northern Fergana belongs to the genetic facies type of the piedmont-fan zone and is subdivided by the author into a number of smaller facies which are combined into zones. 1) The fan-clastic (fanglomerate) zone is characterized by various conflomeratic facies; pebble-cobble breccia is most abundant, followed by sandy granule conglomerate and by boulder conglomerate.

The facies of this zone are divided into 1) the torren-Jard 1/4

AND PROBLEMS OF THE PROPERTY O

15-1957-10-13963

The Cenozoic Molasse Facies of Northern Fergana

tial boulder facies, consisting of irregularly and poorly rounded boulders 25 to 85 cm across; 2) the torrential pebble-cobble facies, occurring in thick layers or lenses (from several meters to several tens of meters), consisting of pebbles 3 to 4 cm across or, less commonly, of cobbles 8 to 9 cm across, and genetically subdivided into dry-valley, stream, carbonatized, residual, and mud-ball varieties; and 3) the torrential granule facies (similar to that described above), occurring in thin lenses and distinguished by smaller fragments, and containing dry-valley-carbonatized, dry-valley-manganiferous, and stream-carbonatized varieties. 2) The fan-loess (fan-siltstone) zone is very extensive in northern Fergana and consists of fine-clastic, varigrained sand-silt rocks. They are subdivided into a) the channel facies, characterized by coarse, irregularly sorted deposits; b) the flood-plain facies, distinguished from the channel facies by better sorting and finer grain size; c) the loess facies, very abundant among the molasse sediments, which forms thick beds (several tens of meters) and is very persistent along the strike; and d) the shoe-string facies, represented by mixed Card 2/4

15-1957-10-13963

The Cenozoic Molasse Facies of Northern Fergana

rocks and by masses of fine-grained material with individual grains of sand (or even granules). 3) The fan--stagnant-water (playa) zone occurs in the peripheral parts of the piedmont plains, in dammed-up and swampy lowlands; it consists of silty muds and exhibits well-defined and thin horizontal bedding. Genetically and lithically it may be subdivided into a) the ornamented facies, formed of buried soils with fine networks of plant root impressions, carbonate "cocoons," and similar features; b) the meadow facies, distinguished by spotted, ethereal, reddish-ochre colors and bluish-gray, irregularly scattered spots, and by great variety in clastic content in different regions; c) the playa (periodic stagnant-water) facies, characterized by very thin and distinct horizontal bedding and by fine-grained components; d) the lacustrine-paludal facies, formed in the lowland parts of the piedmont plain in waterfilled basins containing plants, and consisting of silty carbonate lutites with abundant plant remains; e) the epigenetic carbonatized zone--very dense marls of cryptocrystalline calcilutites; and the fan-eolian facies, characterized by very Card 3/4

15-1957-10-13963

THE PROPERTY THE STATE OF THE PROPERTY AND THE PROPERTY A

The Cenozoic Molasse Facies of Northern Fergana

uniform, predominantly sandy composition and by cross-bedding.
Data are cited on the mechanical composition and the mineralogy
of all the facies enumerated above, and the conditions under
which the rocks were deposited are discussed.

V. G. Rikhter

VERTUNOV, L.N.; KARACHKOVSKAYA, A.N.

Barite and celestine from the continental sediments of the Chu Depression (Kirghizistan). Zap. Kir. otd. Vses. min. ob-va (MIRA 17:11) no.3:105-107 162.

15-1957-3-3081

A DESCRIPTION OF THE PROPERTY PROPERTY OF THE PROPERTY OF THE

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3,

p 93 (USSR)

AUTHOR: Vertunov, L. N.

TITLE: Analcime in the Cenozoic Molasse of Northern Fergana

(Anal'tsim v kaynozoyskikh molassakh Severnoy

Fergany)

FERIODICAL: Zap. Uzbekist. otd. Vses. mineralog. o-va, 1956,

Nr 9, pp 61-62

Authigenic analcime has been identified in the cement

of dark bluish-gray varigrained channel sandstones

which occur in the upper parts of the Sumsar and Marguzar sections. It forms colorless, tabular, pseudocubical grains, ranging from 0.04 to 0.2 mm on the longest edge; it is isotropic and

Card 1/2 water clear. The mineral is associated with carbonates.

15-1957-3-3081

Analcime in the Cenozoic Molasse of Northern Fergana

The author suggests that the analcime may have formed by chemical decomposition of volcanic rocks in an alkaline environment and a warm climate.

Ye.S.K.

Card 2/2

	Brief descript of upper Crets SAGU no.63:31-	ceous and	STeogene	Geboare	111	(MLEA 9	:5)	
	(Kassan-Tau	Beology, St	ratigraph	ic) (Kası	san-TauMi	neralogy)		
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Therm	nal waters	in the	Issyk-Kul	VERTUNO basin.	Priroda	52 1	0.6:115 (MIRA	16:6)
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ACC NR. APG021477

. SOURCE CODE: UR/0413/66/000/011/0103/0104

INVENTOR; Autsgraf, F. Zh.; Vertushkin, B. A.; Golovin, V. V.; Kon'kov, Yu. A.; Fedoseyev, R. Yu.

ORG: None

TITLE: A pneumatic relay. Class 42, No. 182416

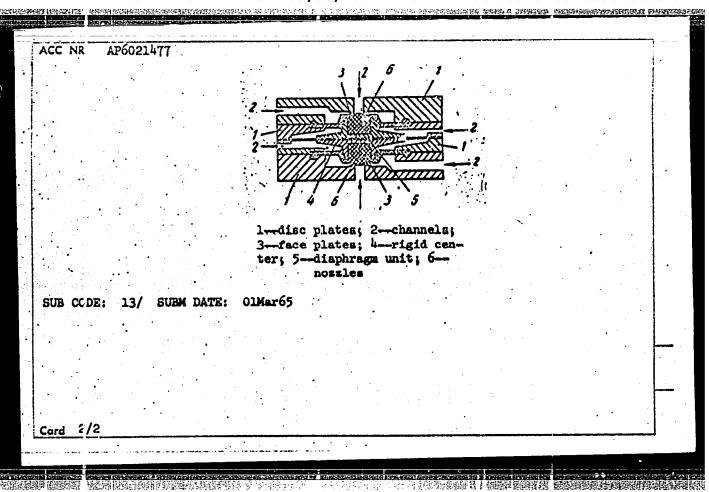
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 103-104

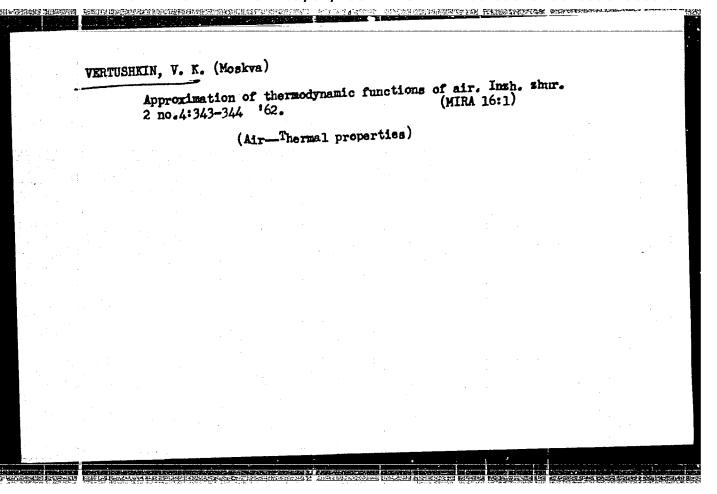
TOPIC TAGS: pneumatic device, nonelectric signal equipment

ABSTRACT: This Author's Certificate introduces a pneumatic relay which contains a housing made in the form of disc plates with channels, a disphragm unit which forms a number of chambers, and nozzles mounted in the flow chambers. Short circuiting conditions are prevented by making the face plates on the rigid center of the diaphragm unit from an elastic material, e. g. rubber, and putting a greater distance between the planes of these face plates than between the edges of the nozzles.

Card 1/2

UDC: 681.142-525





Ш677 s/258/62/002/004/016/019 E032/E314

AUTHOR:

Vertushkin, V.K. (Moscow)

Approximate thermodynamic functions for air

Inzhenernyy zhurnal, v. 2, no. 4, 1962, 343 - 344 PERIODICAL:

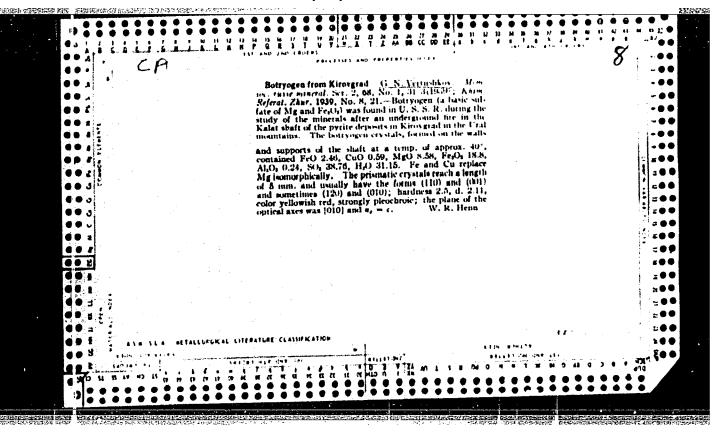
Existing approximate expressions for enthalpy as a TEXT: function of pressure and temperature cover the temperature range 500 - 16 000 K. It is now reported that in the temperature range 13 000 - 20 000 K and pressure range 0.04 - 10 atm., the enthalpy is approximately given by

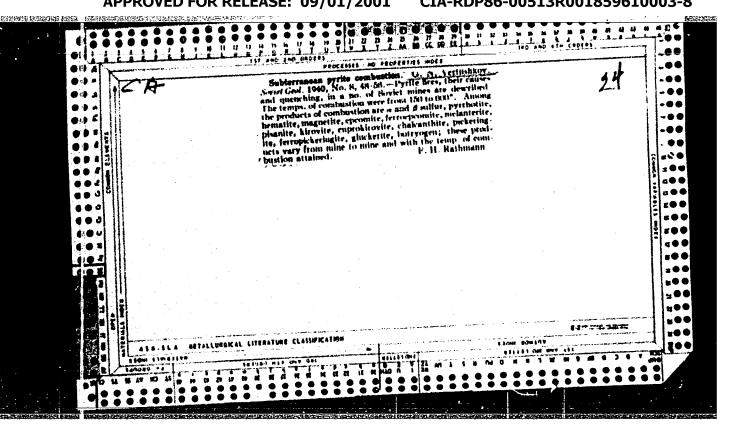
$$h(Q, P) = -a \ln Q - bP^{-c}(1 - d \ln^2 P)$$
 (2)

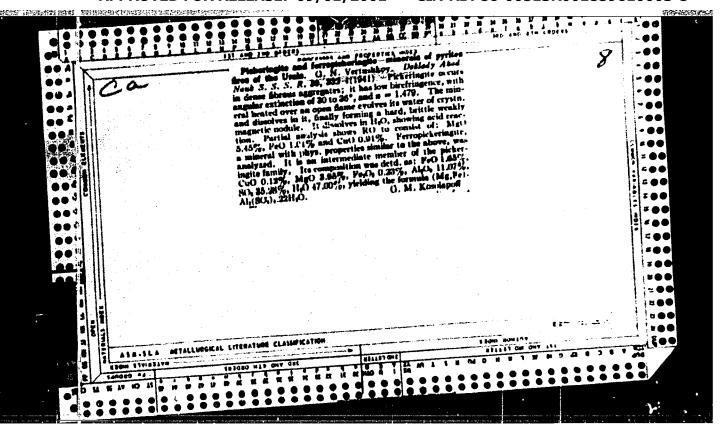
where $a = 2.84 \times 10^4$, $b = 3.065 \times 10^5$, c = 0.09 and d = 0.004 (P is in atm., Q is in g/cm³ and h is in gcal/g). The relative error is in most cases less than $\pm 3\%$, as compared with tabulated values. The above expression for the enthalpy may be used to integrate the equations for the steady-state flow of a real non-viscous gas without bringing in the equations of state. There is 1 table. SUBMITTED: Card 1/1 May 7, 1962

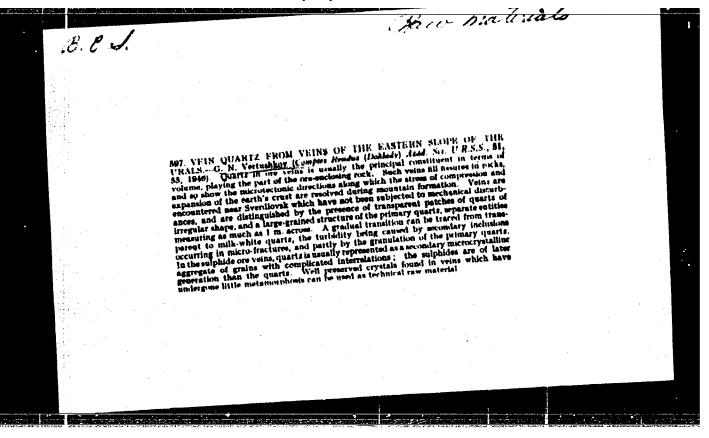
ALITHOD	AP6007748 Vertushkin, V. B	· · · · · · · · · · · · · · · · · · ·	92
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	Supersonic air fi	low past a sphere with equil	ibrium radiation taken into
		ssledovaniya, v. 4, no. 1, 1	966, 162-164
T(PIC T	TAGS: aerodynamic shock wave, entropy	s, hypersonic flow, radiative layer, enthalpy, thermodyn	e heat transfer, thermal radia- namic equilibrium, boundary layer
a)sorp	n an equilibrium a tion is neglected. t radiating gas pa	A system of equations is d st a sphere in a spatial coo	lynamic parameters behind a shock ls investigated. The radiation lerived describing the flow of a brdinate system, with the energy adiation. An effective factor x
equation	on containing an a	en the real gas enthalpy and effect, while the equation	Internal energy is introduced to
		1= x-1 p	a previously developed method 4, 1964, 60) which consists in
Curd	April 1990 Committee Commi	UDC: 533.60	1.155

L 17709-66 ACC NR AP6007748 tiacing n rays in the region considered and approximating the intermediate values of the unknown functions with respect to the values of functions on rays. This makes il possible to express the variable with respect to θ (angle between a ray and axis on symmetry) through the values of functions on rays, thus reducing the initial systum to a system of ordinary differential equations which may be integrated along the rivs. The solution consists in selecting such stand-off distances on the raysat which the boundary condition u = 0 is satisfied on the body surface. The results from computations of the flow past a sphere of 100-cm radius at a speed of 11.4 km/sec and at an altitude of 60 km are presented in graphs. They show that the effective value of x = 1.13 accounts well for real equilibrium properties of air, and that the boundary condition u = 0 is satisfied with accuracy of not less than 0.1%. The effects of radiation show up most strongly upon the distribution of density and enthalpy and substantially less on the velocity distribution and flow pattern. The additional (ooling of air due to radiation leads to an abrupt reduction of enthalpy and to an increase of density near the body surface, which is evidence of the presence of a jadiation entropy layer having a substantial effect on the boundary layer and heat ransfer processes. The author thanks Academician G. I. Petrov for remarks which were taken into account by the author in revising the article. Orig. art. has: i figures and 1 formula. 001/ ATD PRESS: OTH REF: ORIG REF: 003/ UB-CODE: 20/: SUBM DATE: 15Jan65/ 2/2 nst









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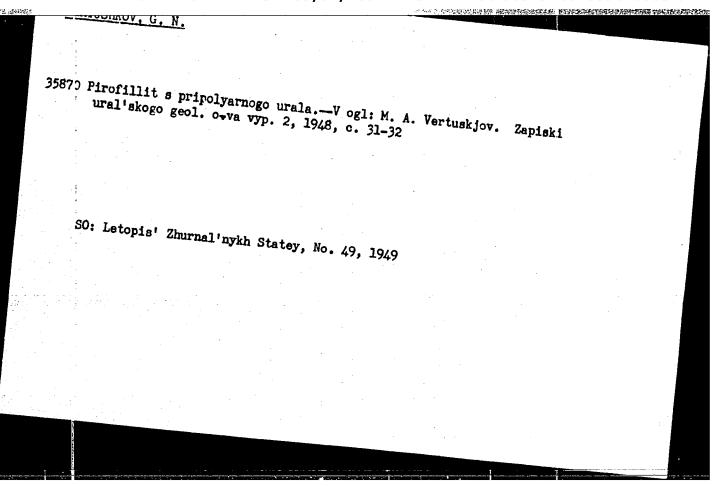
VEITUSHKOV, G. N.

UBSR/Quartz
Mineral deposits

"Foliated Quartz from the Khrustalnaya Gora in the Urals," G. N. Vertushkov, 8 pp

"Zap Vse Min Ob" Vol IXXV, No 4

Deposit of quartz near Sverdlovsk in the Ural Mountains. Study of the vitreous, transparent quartz from this region.



VERTUSHKOV, G. N.

Vertishkov, G. M. "Deposits of the alpine type in the Central Urals," Trudy Gorno-geol. in-ti (Akad. nauk SSSR, Ural'skiy filial), Issue 14, 1948, p. 33-48 - Bibliog: 20 items SO: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

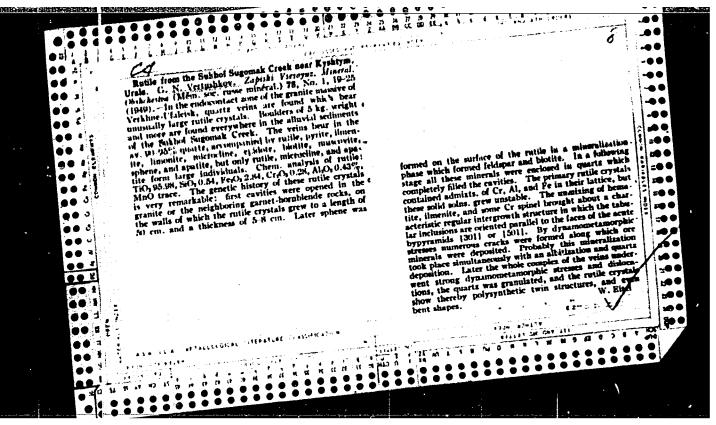
VERTUSHROV, G. N. "Brockite from Neyvo-Sudyank," Trudy Corno-geol. In-to (Akad. neuk SSR, 'ral'skiy filial), Issue 14, 1948, p. 58-60 - Bibliog: 5 items
SO: 1-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

VERTUSEROV, G. M.

Vertusekov, G. M. "Sheelite crystals from the Kedrovs iy deposit," Trudy Gorno-geol. in-ta (Akad. nauk SSSR, Ural'skiy filial), Issue 14, 1948, p. 64-68 - Bibliog: 6 items

S0: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949)

RTUSHKIV, C	G. N. PA 1/4	,,,,,,
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	USSR/Minerals Apr/May/Jun 48 Quartz Mineral Deposits	
•	"Andalusite, Sillimanite, Kyanite and Corundum From the Quartz Veins of the Southern Urals," G. N. Vertushkov, Acting Mem, 4t pp	
	"Zapiski V-S Mineral Obshoh" Vol LXXVII, No 2	
	Describes various forms in which subject minerals are found in southern Ural quartz veine.	
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VERTUSHKOV, G. N.

USSR (600)

Sverdlovsk

Academy of Sciences - Geologists

Sap 50

"Net problems of Genetic Mineralogy," Prof D,P. Grigor'yev, Priroda No 9 pp 22-30

Mentions the following persons as contributing greatly to the development of the science on the USSR: G. G. Lemmleyn, Leningrad, Moscow; I. I. Shafranovskiy, Leningrad; G. N. Vertushkov,

VERTUSINOV, G. N.

Kustanay Province - Anapaite

Messelite from the Kustanay Province. Zap. Vses. min. ob. 81, No. 3, 1952.

Monthly List of Mussian Accessions, Library of Congress, December 1952. Unclassified

VERTUSHKOV, G. N.

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Messelite from the Kustanay Province. Zap. Vses. min. ob. 81 no. 4, 1952

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified

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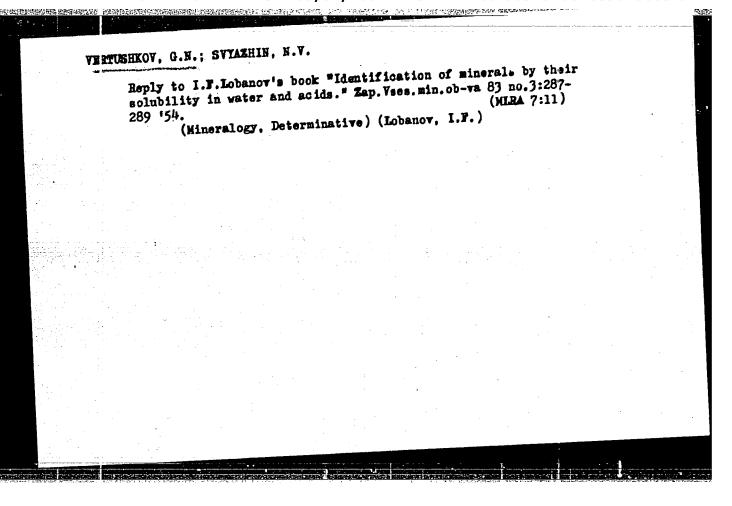
Vol. &8 No. 4

Feb. 25, 1954

Mineralogical and Geological Chemistry

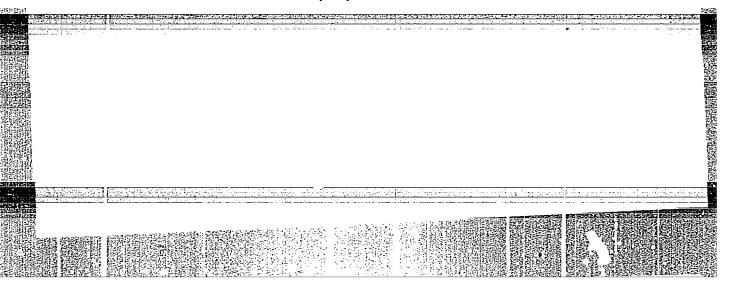
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Worphology of drusy cristals of quarts and feldspar from a Morphology of drusy cristals of quarts and feldspar from a pegmatite vein of the Adui deposits in the Urals. Zap. Vees. pegmatite vein of the Adui deposits in the Urals. Zap. Vees. (MIRA 812) l. Kafedra mineralogii Sverdlovskogo gornogo instituta im. V. V. Vakhrusheva. (Adui region—Feldspar) (Adui region—Quarts)

VIRTUSH	KOV, G.N. Minerals	from mammo	th tusks. M	in.sbor.no	.9:309-3	12 '55.(KLR	A 9:9)	
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VERTUSHKOV, C.N.

ANDONIN, V.N.; VERTUSHKOV, C.N.

Amethysts from the Berezovsk gold ore deposit in the Urals.

Amethysts from the Berezovsk gold ore deposit in the Urals.

(NIRA 10:3)

Trudy Sver.gor.inst. no.26:93-94 156.

(Berezovsk region—Amethysts)

H.

Limonite geode frinst. no.26:94-98	com the Bakal i 3 '56. (BakalLimor	ron ore deposits. nites) (Geodes)	frudy Sver-gor- (MIRA 10:3)	
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A STATE OF THE STA	Ilmenite-magnetite ores form dolomite veins in the Urals Sver.gor.inst. no.26:98-104 56. (M) (Ural MountainsMagnetite) (Ural Mountains)						
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Aleksandr Vasil'evich Kalugin, lae of the first cellecters of minerals in the Urals. Zap. Vses.min.eb-va & no.1:95-99 '56. (MLRA 9:7) 1. Kafedra mineralogii Sverdlevskogo gornogo instituta inemi v.v. Vakhrusheva. (Kalugia, Aleksandr Vasil-evich, 1857-1909)

SHKOV, G.W.

USSR/Cosmochemistry - Geochemistry. Hydrochemistry, D

Abst Journal: Referat Zmir . Khimiya, No 19, 1956, 61300

Vertushkov, G. N., Yarosh, P. Ya. Author:

Institution:

Title: Black Chrysotile-Asbestos from the Bazhenovsk Deposit in the Urals

Original

Dokl. AN 1956, 106, No 5, 907-910 Periodical:

Chemical composition of black asbestes (in %): MgO 41.98, CaO 12, Abstract: Mn0 0.08, Fe0 0.39, Fe203 1.07, Al203 0.28, Sio2 41.22. On treat-

ment of this asbestos with various cridizing agents (H2O2, HNO3, etc) changes in the black coloration occurred with different transitions from black to white. Black color of the described asbestos can be

attributed to Fe(2+).

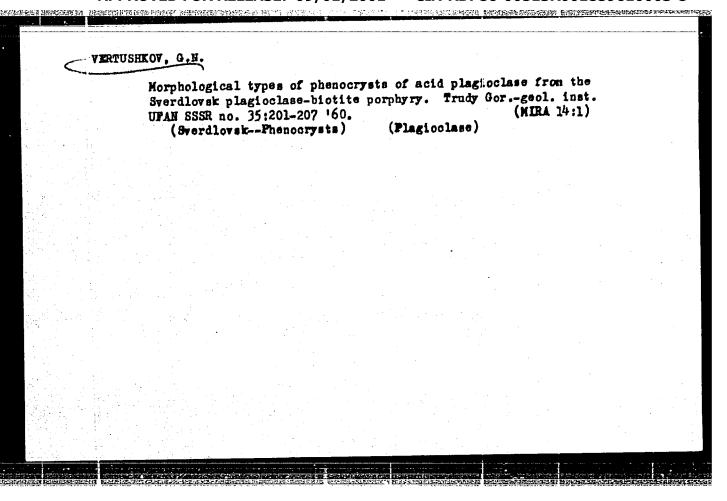
Card 1/1

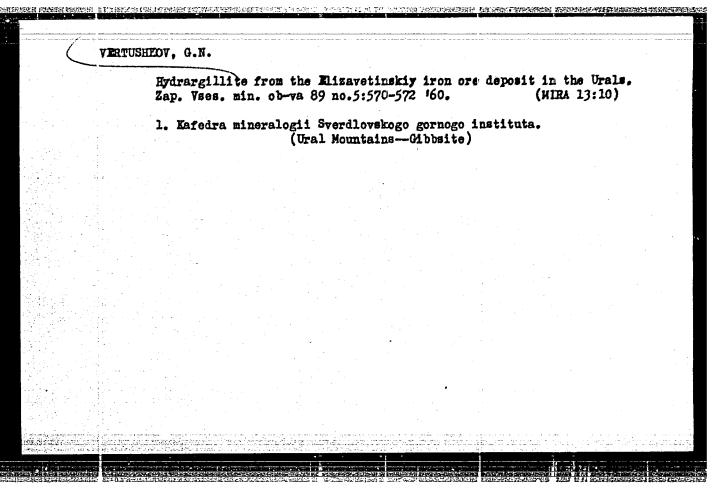
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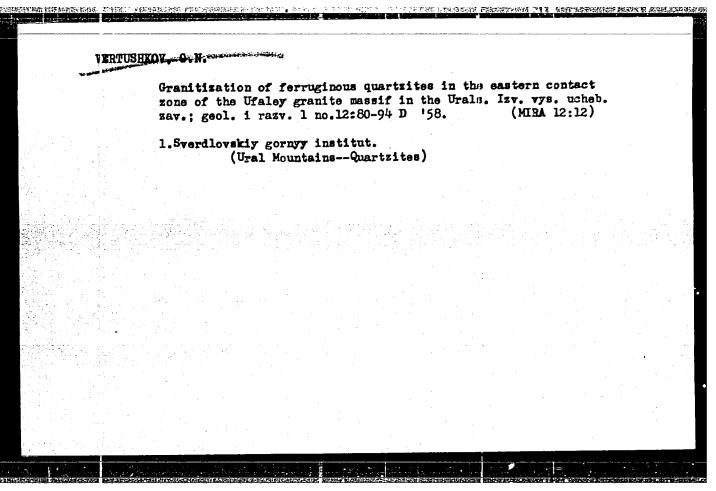
 Metasomatic change of serpentinites into "mica-ites" (slindity) surrounding a quartz vein in Mount Ehrustal nays in the Urals. Zap. Vses. min. ob-va 86 no.1:65-71 57.
1. Kafedra mineralogii Sverdlovskogo gornogo instituta. (Ural NountainsSerpentinites)

Rhythmic phenomena in a coarsely dispersed medium during the formation of limonite geodes in the Bilimbay crystalline limestone deposit. Izv. An SSSR. Ser. geol. 24 no.6:108-112 Je '60. (MIRA 14:4) 1. Sverdlovskiy gornyy institut. (Bilimbay region--Geodes)

Dendrite cryst quartz from th inst. UFAN SSS	e Rezh reg	31011 11 U 30_106 50	de orara.	11 46.5	(HIRA 14:2)	
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15-57-5-6512 Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5,

p 114 (USSR)

AUTHOR: Vertushkov, G. N.

TITLE: Ilmenite-Magnetite Ores from Dolomite Veins in the Urals (Il'menito-magnetitovyye rudy iz dolomitovoy

zhily na Urale)

Tr. Sverdl. gorn. in-ta, 1956, Nr 26, pp 98-104 PERIODICAL:

ABSTRACT: The Sugomak deposit, at present having only mineralogical value, is situated in the Kyshtym district

of the Chelyabinsk region, on the southern continuation of Sugomak Mountain. The district in which the deposit occurs is composed of massive antigorite serpentinites, grayish-green in color, and containing dust-like inclusions of magnetite. The serpentinites

contain veins of dolomite up to two meters thick. The veins have sharp contacts with the serpentinites,

Card 1/3

15-57-5-6512

Ilmenite- Magnetite Ores (Cont.)

which, at these places, are strongly sheared. The schistosity, parallel to the selvage of the vein, dies out away from the vein. Ore minerals form bands and accumulations of irregular form in the Ore minerals form bands and accumulations of irregular form in the olomite in the body of the veins. The ore minerals represent 20 dolomite in the body of the veins. The ore minerals to 30 percent of the total volume of the vein. The ore minerals are represented by a granular aggregate of ilmenite and magnetite filling fractures and cavities in the dolomite, cementing dolomite fragments, and partly replacing the dolomite. These relations fragments, and partly replacing the dolomite. These relations ore is predominantly magnetite. The TiO2 content is 25.42 percent. Ore is predominantly magnetite. The TiO2 content is 25.42 percent. Grains of ore rarely show crystal form and are everywhere allograins of ore rarely show crystal form and are everywhere allograins of in relation to each other. The size of the grains ranges triomorphic in relation to each other. The size of the grains ranges triomorphic in relation to each other. The size of the grains ranges triomorphic in relation to each other, and are everywhere allogous the show intergrowths of hematite, the result of decomposition from both show intergrowths of hematite, the result of decomposition from solid solution. The absence of any indications of transection and replacement of one ore mineral by another, and also the equal degree of idiomorphism, lead one to conclude that the ilmenite and Card 2/3

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15-57-5-6512

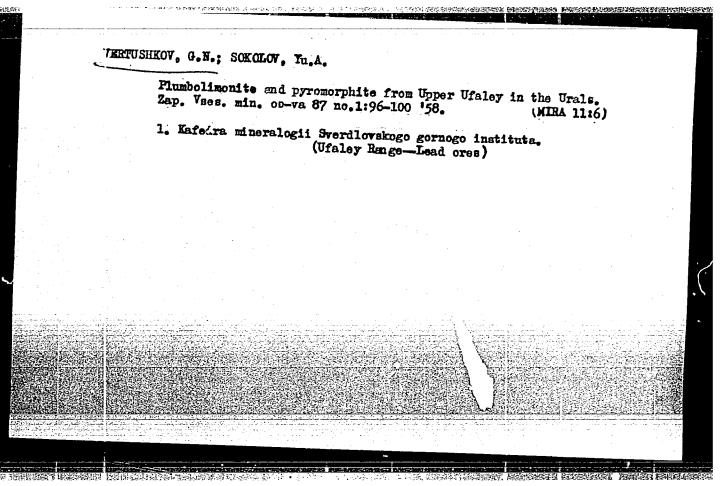
Ilmenite-Magnetite Ores (Cont.)

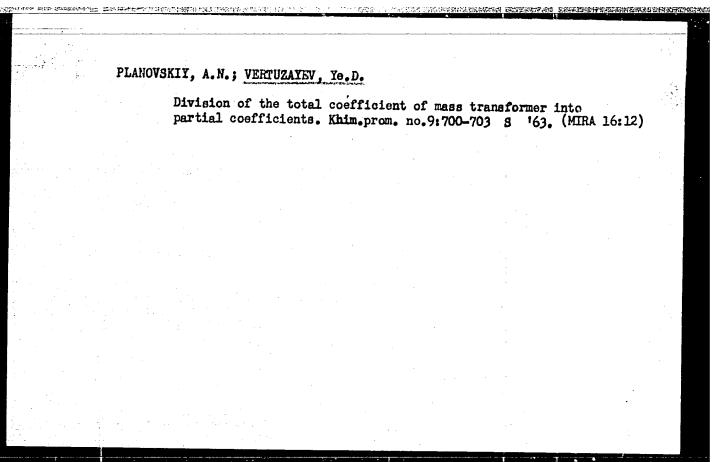
magnetite formed simultaneously. Apatite is present in considerable quantities in the ilmenite-magnetite aggregate. The veins originated where fractures formed in the serpentinites because of tectonic movements. These fractures were the sites of formation of the dolomite veins. The vein mineral was deposited from hydrothermal solutions containing CO2 and combinations of Cl and P at high temperatures. After the movements in the veins, the ilmenite-magnetite aggregate was deposited in cavities and by metasomatic replacement of the dolomite. The Sugomak deposit is genetically most closely related to veins of the alpine type in metamorphosed basic rocks. During metamorphism of these basic rocks, Ti does not enter the lattices of silicates but is concentrated in independent minerals. In the described occurrence, the elements of the Sugomak hyperbasite mass that did not enter into the composition of minerals in the serpentinite accumulated in structural fractures in combination with H2 and CO2.

A. B. B.

The entermontal street street, load	Notamorphism of the Kusa-type iren-titanium deposits. Mauch. Metamorphism of the Kusa-type iren-titanium deposits. Mauch. dekl. vys. shkoly; geolgeog. nauki no.3:139-143 '58. (MIRA 12:1)							
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PTANOVSKIY, A.N.; BULATOV, S.N.; VERTUZAYEV, Ye.D.

Design of sieve-plate column extractors. Khim.prcm. no.5:364-367
My 162.

(Extraction apparatus)

(Extraction apparatus)